



# DHI-NVR5208-8P-AI/ANZ

Dahua 8CH 2HDD 1U NETWORK VIDEO RECORDER







Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### Series Overview

The NVR5000-AI/ANZ series offers outstanding performance and high-grade recording technology that make it ideal for IP video surveillance applications. It has a powerful processor, that offers high access and forwarding bandwidth and strong decoding capabilities that together produce unimpeded streams. Thanks to its built-in AI chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of AI functions, such as high-precision face recognition and perimeter protection. They shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

#### **Functions**

#### AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 32 × 1080p@30 fps or 8 × 8MP@30 fps.
- · Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- · Supports AcuPick with up to 8 channels.
- · Supports N+M cluster,iSCSI.
- Al by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- · Supports EPTZ, and one-click arming and disarming.





















#### **Face Detection**

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

### Heat Map by Camera

Dahua heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

#### ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

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Technical Specification			Video Metadata	
System			Metadata Performance of Al by Camera (Number of	8 channels
Main Processor	Industrial-grade processor		Channels)	o channels
Operating System	Embedded Linux		Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella
Operating Interface	Web, Local GUI		Markov Walitala Astribusta	License plate, plate color, vehicle body, vehicle model,
Al			Motor Vehicle Attributes	vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus		Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map		Vehicle License Plate Comparison	
			ANPR by Camera (Number of Channels)	All channels (8 targets/s)
AcuPick AI by Camera + Recorder	Max. 8-channel, 1 combined event per channel/s		License Plate Database Capacity	Create up to 20,000 plate numbers.     Blocklist and allowlist
Perimeter Protection			Audio and Video	
Perimeter Performance Al			Access Channel	8 channels
by Recorder (Number of Channels)  Perimeter Performance of Al by Camera (Number of	4 channels, 10 IVS rules for each channel  All channels (8 targets/s)		Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
Channels)	All Challiers (o targetsys)		Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF
Face Detection			Decoding Capability	Al disabled: 2-channel 32 MP@25 fps; 2-channel 24 MP@25 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps Al enabled: 1-channel 32 MP@25 fps; 1-channel 24 MP@25 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 5 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 5 MP@30 fps
Face Attributes  Face Detection Performance of Al by Recorder (Number of Channels)	Gender; age group; glasses; expressions; face mask; beard  2 channels (up to 12 face images/s each channel)			
Face Detection Performance of Al by Camera (Number of Channels)	8 channels		Video Output	2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI1 and HDMI2
Face Recognition				Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2
Face Database Capacity	Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.		Multi-screen Display	Main screen: 1/4/8/9 Sub screen: 1/4/8/9
Face Recognition	1. 8-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha
Performance of AI by Recorder (Number of			Compression Standard	
Channels)			Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Recognition Performance of AI by	8 channels		Audio Compression	G.711a; G.711u; PCM; G726
Camera (Number of Channels)			Network	
SMD Plus SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI
,	and lighting condition change		Mobile Phone Access	iOS; Android
SMD Plus by Camera	All channels (16 targets/s)		Interoperability	ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK
			Browser	Chrome; IE; Safari; Edge; Firefox

Recording Playback			
Multi-channel Playback	Up to 8 channels		
Record Mode	General, motion detection; intelligent; alarm; POS		
Backup Method	USB device and network		
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)		
Storage			
Disk Group	Yes		
Alarm			
General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; thermal alarm		
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception		
Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map		
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email		
Port			
Audio Input	1-channel RCA		
Audio Output	1-channel RCA		
Alarm Input	4 channels		
Alarm Output	2 channels		
Disk Interface	2 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the environment temperature.		
RS-232	1		
RS-485	1		
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)		
HDMI	1		
VGA	1		
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
PoE Port	8 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE		
General			
Power Supply	100–240 VAC, 47-63 Hz		
Power Consumption	Total output of NVR is $\leq$ 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5W		
Net Weight	2.57 kg (5.67 lb)		
Gross Weight	3.80 kg (8.38 lb)		
Product Dimensions	375.0 mm × 329.4 mm x 53.0mm (14.76" × 12.97" × 2.09") (W × D × H)		

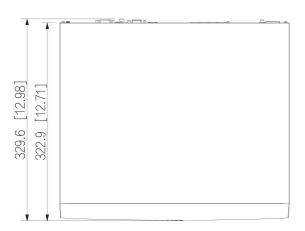
Packaging Dimensions	451.0 mm × 147.0 mm × 425.0 mm (17.76" × 5.79" × 16.73") (W × D × H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
Installation	Rack or desktop		
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014		

Ordering Information						
Туре	Model	Description				
NETWORK VIDEO RECORDER	DHI-NVR5208-8P-AI/ANZ	Dahua 8CH 2HDD 1U NETWORK VIDEO RECORDER				

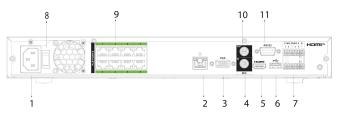
## Dimensions (mm[inch])

mm [inch]





#### **Panels**



- 1 Power Input
- 3 VGA Port
- 5 HDMI Por
- 7 Alarm In/Out
- 9 PoE Ports
- 11 RS-232 Port
- 2 Network Port
- 4 AUDIO IN, RCA Connector
- 6 USB Port
- 8 Power Switch
- 10 AUDIO OUT, RCA Connector